



SEQUENCE LISTING

<110> Chuenkova, Marina
Pereira, Miercio A.

<120> T. Cruze-Derived Neurotrophic Agents and
Methods of Use Therefor

<130> 1322.1028-001

<140> US 09/745,008

<141> 2000-12-20

<150> US 60/172,881

<151> 1999-12-20

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<212> DNA

<213> Trypanosoma cruzi

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09745008-050407

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 Phe Ala Arg Leu Val Gly Glu Leu Arg Ile Ile Lys Ser Val Leu Arg
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 Ser Trp Lys Asn Trp Asp Ser His Leu Ser Ser Ile Cys Thr Pro Ala
 420 425 430
 Asp Pro Ala Ala Ser Ser Ser Glu Ser Gly Cys Gly Pro Ala Val Thr
 435 440 445
 Thr Val Gly Leu Val Gly Phe Leu Ser Gly Asn Ala Ser Gln Asn Val
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 Trp Glu Asp Ala Tyr Arg Cys Val Asn Ala Ser Thr Ala Asn Ala Glu
 465 470 475 480
 Arg Val Arg Asn Gly Leu Lys Phe Ala Gly Val Gly Gly Gly Ala Leu
 485 490 495
 Trp Pro Val Ser Gln Gln Gly Gln Asn Gln Arg Tyr Arg Phe Ala Asn
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 His Ala Phe Thr Leu Val Ala Ser Val Thr Ile His Glu Ala Pro Arg
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 Ala Ala Ser Pro Leu Leu Gly Ala Ser Leu Asp Ser Ser Gly Gly Lys
 530 535 540
 Lys Leu Leu Gly Leu Ser Tyr Asp Glu Lys His Gln Trp Gln Pro Ile
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 Tyr Gly Ser Thr Pro Val Thr Pro Thr Gly Ser Trp Glu Thr Gly Lys
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 Arg Tyr His Leu Val Leu Thr Met Ala Asn Lys Ile Gly Ser Val Tyr
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 Ile Asp Gly Glu Leu Leu Glu Gly Ser Gly Gln Thr Val Val Pro Asp
 595 600 605
 Gly Arg Thr Pro Asp Ile Ser His Phe Tyr Val Gly Gly Tyr Lys Arg
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 Ser Asp Met Pro Thr Ile Ser His Val Thr Val Asn Asn Val Leu Leu
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20 25 30
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35 40 45
Asp Tyr Arg Arg Arg Leu Val Tyr Glu Ser Ser Asp Met Gly Asn Ser
50 55 60
Trp Val Glu Ala Val Gly Thr Leu Ser Arg Val Trp Gly Pro Ser Pro
65 70 75 80
Lys Ser Asn Gln Pro Gly Ser Gln Ser Ser Phe Thr Ala Val Thr Ile
85 90 95
Glu Gly Met Arg Val Met Leu Phe Thr His Pro Leu Asn Phe Lys Gly
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Ser Ser Val Leu Tyr Lys Asp Asp Lys Leu Tyr Cys Leu His Glu Ile
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Asn Ser Asn Glu Val Tyr Ser Leu Val Phe Ala Arg Leu Val Gly Glu
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35 40 45
Asp Tyr Arg Arg Arg Leu Val Tyr Glu Ser Ser Asp Met Gly Asn Thr
50 55 60
Trp Leu Glu Ala Val Gly Thr Leu Ser Arg Val Trp Gly Pro Ser Pro
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Lys Ser Asn Gln Pro Gly Ser Gln Ser Ser Phe Thr Ala Val Thr Ile
85 90 95
Glu Gly Met Arg Val Met Leu Phe Thr His Pro Leu Asn Phe Lys Gly
100 105 110

05045008-05045008

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 145 150 155 160
 Asn Ser Asn Glu Val Tyr Ser Leu Val Phe Ala Arg Leu Val Gly Glu
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35 40 45
Val Val Asp Pro Thr Val Ile Val Lys Gly Asn Lys Leu Tyr Val Leu
50 55 60
Val Gly Ser Tyr Tyr Ser Ser Arg Ser Tyr Trp Ser Ser His Gly Asp
65 70 75 80
Ala Arg Asp Trp Asp Ile Leu Leu Ala Val Gly Glu Val Thr Lys Ser
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Thr Ala Gly Gly Lys Ile Thr Ala Ser Ile Lys Trp Gly Ser Pro Val
100 105 110
Ser Leu Lys Lys Phe Phe Pro Ala Glu Met Glu Gly Met His Thr Asn
115 120 125
Gln Phe Leu Gly Gly Ala Gly Val Ala Ile Val Ala Ser Asn Gly Asn
130 135 140
Leu Val Tyr Pro Val Gln Val Thr Asn Lys Arg Lys Gln Val Phe Ser
145 150 155 160
Lys Ile Phe Tyr Ser Glu Asp Asp Gly Lys Thr Trp Lys Phe Gly Lys
165 170 175
Gly Arg Ser Asp Phe Gly Cys Ser Glu Pro Val Ala Leu Glu Trp Glu
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Gly Lys Leu Ile Ile Asn Thr Arg Val Asp Trp Lys Arg Arg Leu Val
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Tyr Glu Ser Ser Asp Met Glu Lys Pro Trp Val Glu Ala Val Gly Thr
210 215 220
Val Ser Arg Val Trp Gly Pro Ser Pro Lys Ser Asn Gln Pro Gly Ser
225 230 235 240
Gln Thr Ser Phe Thr Ala Val Thr Ile Glu Gly Met Arg Val Met Leu
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Phe Thr His Pro Leu Asn Phe Lys Gly Arg Cys Val Arg Asp Arg Leu
260 265 270
Asn Leu Trp Leu Thr Asp Asn Gln Arg Ile Tyr Asn Val Gly Gln Val
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Ser Ile Gly Asp Glu Asn Ser Ala Tyr Ser Ser Val Leu Tyr Lys Asp
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Asp Lys Leu Tyr Cys Leu His Glu Ile Asn Thr Asp Glu Val Tyr Ser
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 Ser Pro Arg Leu Val Leu Leu Ala Phe Cys Arg Gln Arg Leu Pro Lys
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 Arg Met Gly Gly Ser Tyr Arg Cys Val Asn Ala Ser Thr Ala Asn Ala
 385 390 395 400
 Glu Arg Val Arg Asn Gly Leu Lys Phe Ala Gly Val Gly Gly Ala
 405 410 415
 Leu Trp Pro Val Ser Gln Gln Gly Gln Asn Gln Arg Tyr Arg Phe Ala
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 Asn His Ala Phe Thr Leu Val Ala Ser Val Thr Ile His Glu Ala Pro
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 Arg Ala Ala Ser Pro Leu Leu Gly Ala Ser Leu Asp Ser Ser Gly Gly
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 Lys Lys Leu Leu Gly Leu Ser Tyr Asp Glu Lys His Gln Trp Gln Pro
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 Ile Tyr Gly Ser Thr Pro Val Thr Pro Thr Gly Ser Trp Glu Thr Gly
 485 490 495
 Lys Arg Tyr His Leu Val Leu Thr Met Ala Asn Lys Ile Gly Ser Val
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 Tyr Ile Asp Gly Glu Leu Leu Glu Gly Ser Gly Gln Thr Val Val Pro
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 Asp Gly Arg Thr Pro Asp Ile Ser His Phe Tyr Val Gly Gly Tyr Lys
 530 535 540
 Arg Ser Asp Met Pro Thr Ile Ser His Val Thr Val Asn Asn Val Leu
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 Leu Tyr Asn Arg Arg Gln Leu Asn Thr Glu Glu Ile Arg Thr Leu Phe
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 Leu Ser Gln Asp Leu Ile Gly Thr Glu Ala His Met Asp Ser Ser Ser
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 595 600 605
 His Ser Thr Pro Ser Thr Pro Val Asp Ser Ser Ala His Ser Thr Pro
 610 615 620
 Ser Thr Pro Ala Asp Ser Ser Ala His Gly Thr Pro Ser Thr Pro Val
 625 630 635 640
 Asp Ser Ser Ala His Gly Thr Pro Ser Thr Pro Ala Asp Ser Ser Ala
 645 650 655
 His Gly Thr Pro Ser Thr Pro Val Asp Ser Ser Ala His Ser Thr Pro
 660 665 670
 Ser Thr Pro Val Asp Ser Ser Ala His Ser Thr Pro Ser Thr Pro Val
 675 680 685
 Asp Ser Ser Ala His Gly Ala Pro Ser Thr Pro Ala Asp Ser Ser Ala
 690 695 700
 His Gly Thr Pro Ser Thr Pro Val Asp Ser Ser Ala His Gly Thr Pro
 705 710 715 720
 Ser Thr Pro Ala Asp Ser Ser Ala His Ser Thr Pro Ser Thr Pro Ala
 725 730 735
 Asp Ser Ser Ala His Ser Thr Pro Ser Thr Pro Ala Asp Ser Ser Ala
 740 745 750
 His Ser Thr Pro Ser Thr Pro Val Asp Ser Ser Ala His Gly Thr Pro
 755 760 765
 Ser Thr Pro Ala Asp Ser Ser Ala His Ser Thr Pro Ser Thr Pro Ala
 770 775 780

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Asp	Ser	Ser	Ala	His	Gly	Thr	Pro	Ser	Thr	Pro	Val	Asp	Ser	Ser	Ala
785					790					795					800
His	Ser	Thr	Pro	Ser	Thr	Pro	Val	Asp	Ser	Ser	Ala	His	Gly	Thr	Pro
				805				810						815	
Ser	Thr	Pro	Val	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Val
			820					825					830		
Asp	Ser	Ser	Ala	His	Gly	Thr	Pro	Ser	Thr	Pro	Val	Asp	Ser	Ser	Ala
		835					840					845			
His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro
		850				855					860				
Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Gly	Thr	Pro	Ser	Thr	Pro	Val
865				870						875					880
Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala
				885					890					895	
His	Ser	Thr	Pro	Ser	Thr	Pro	Val	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro
			900					905					910		
Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Gly	Thr	Pro	Ser	Thr	Pro	Val
			915					920					925		
Asp	Ser	Ser	Ala	His	Gly	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala
		930				935					940				
His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro
945						950					955				960
Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Val
				965					970					975	
Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala
			980					985					990		
His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro
			995				1000						1005		
Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Val
		1010					1015					1020			
Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala
1025					1030						1035				1040
His	Gly	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro
				1045					1050					1055	
Ser	Thr	Pro	Val	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Ala
			1060					1065					1070		
Asp	Ser	Ser	Ala	His	Gly	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala
			1075				1080					1085			
His	Ser	Thr	Pro	Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Gly	Thr	Pro
			1090				1095					1100			
Ser	Thr	Pro	Ala	Asp	Ser	Ser	Ala	His	Ser	Thr	Pro	Ser	Thr	Pro	Ala
1105					1110						1115				1120
Gly	Ser	Ser	Ala	Asn	Gly	Thr	Val	Leu	Ile	Leu	Pro	Asp	Gly	Ala	Ala
				1125						1130				1135	
Leu	Ser	Thr	Phe	Ser	Gly	Gly	Gly	Leu	Leu	Leu	Cys	Ala	Cys	Ala	Leu
			1140					1145					1150		
Leu	Leu	His	Val	Phe	Phe	Met	Ala	Val	Phe						
			1155					1160							

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